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NOTICE OF ALLOWANCE AND FEE(S) DUE

54068

7590

05/28/2010

ROHM CO., LTD. C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive SUITE 200 Reston, VA 20191

EXAMINER				
BATAILLE, PIERRE MICHE				
ART UNIT	PAPER NUMBER			

2186

DATE MAILED: 05/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,224	03/27/2006	Hidemichi Mizuno	40404.22/SA	5025

TITLE OF INVENTION: METHOD OF READING FROM AND WRITING TO A STORAGE DISK, AND STORAGE DISK CONTROL UNIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee pap	(s) Transmittal. This ers. Each additional	certificate cannot be used	for domestic mailings of the for any other accompanying nent or formal drawing, must
54068 7590 05/28/2010 ROHM CO., LTD. C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelor addressed to the Mail Stop ISSUE FEE address above, or being facsimit transmitted to the USPTO (571) 273-2885, on the date indicated below.			
SUITE 200 Reston, VA 201	01					(Depositor's name)
Resion, VII 201	<i>)</i> 1					(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,224 TITLE OF INVENTION	03/27/2006 V: METHOD OF READI	NG FROM AND WRITI	Hidemichi Mizuno ING TO A STORAGE DIS	K, AND STORAGE	40404.22/SA DISK CONTROL UNIT	5025
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/30/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS]		
BATAILLE, P	IERRE MICHE	2186	711-112000	.		
"Fee Address" ind PTO/SB/47; Rev 03- Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	"Indication form ned. Use of a Customer A TO BE PRINTED ON iffied below, no assignee	(1) the names of up to or agents OR, alternatic (2) the name of a sing registered attorney or 2 registered patent attained, no name will be THE PATENT (print or tyel data will appear on the port a substitute for filing an (B) RESIDENCE: (CITE	vely, le firm (having as a ragent) and the name: orneys or agents. If no printed. pe) patent. If an assignerassignment.	member a sof up to o name is 3e is identified below, the	document has been filed for
Please check the appropri	riate assignee category or	r categories (will not be p	printed on the patent):	Individual 🖵 Cor	poration or other private g	roup entity Government
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5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati	,	☐ b. Applicant is no lor	ger claiming SMAL	L ENTITY status. See 37 (CFR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	ed from anyone other than k Office.	the applicant; a regist	tered attorney or agent; or	the assignee or other party in
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Typed or printed name			Registration No	o		
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	5 U.S.C. 122 and 37 CFR c USPTO. Time will vary rden, should be sent to the	. 1.14. This collection is es y depending upon the indi- ne Chief Information Offic	timated to take 12 m vidual case. Any con er. U.S. Patent and T	inutes to complete, includ nments on the amount of t rademark Office, U.S. De	nd by the USPTO to process) ing gathering, preparing, and ime you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450,

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ROHM CO., LT	D.		BATAILLE, PI	ERRE MICHE
C/O KEATING &	-		ART UNIT	PAPER NUMBER
1800 Alexander B SUITE 200 Reston, VA 20191			2186 DATE MAILED: 05/28/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1012 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1012 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/595,224	MIZUNO ET AL.
Notice of Allowability	Examiner	Art Unit
	Pierre-Michel Bataille	2186
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>05/03/2010</u> .		
2. The allowed claim(s) is/are <u>1-11</u> .		
 3.	e been received. be been received in Application No cuments have been received in this	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached office action of the back) of the complying with the front (not the back) of the complying in the submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /Pierre-Michel Bataille/ Primary Examiner, Art Unit 2186	5. Notice of Informal Page No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e

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Art Unit: 2186

Allowable Subject Matter

1. Claims 1-11 are allowed.

2. The following is an examiner's statement of reasons for allowance: the present invention features: storage disk control unit comprising serial data transfer means; buffer means; storage disk control means; and a buffer management table for establishing correspondence between a multiplicity of sectors of a storage disk and a group of buffer spaces of said buffer means.

Closed cited prior art includes:

US 2006/0109580 (Kisaka et al) teaching detecting rotational position of a magnetic disk medium having tracks formed thereon, each track being divided into a plurality of sectors to which servo data is written, wherein each track is also divided into a plurality of blocks each including one or more of said plurality of sectors said one or more sectors being sequentially arranged along said each track for sequential reading.

However, none of the prior art of record teaches or renders obvious the features of the claims, specifically:

setting an unprocessed status flag indicative of said data stored being unprocessed for the sector whose data has been stored in its associated buffer space; and

a sequence of steps also repeated for each of said N sectors in the order of the sectors, starting with sector 1, in response to said read request, said sequence including steps of

transferring data, via said serial data transfer means, from a buffer space allocated to an associated sector to an external device, on condition that an unprocessed status flag is set for that sector, and

clearing the unprocessed status flag for the sector whose data has been transferred from its associated buffer space.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Michel Bataille whose telephone number is (571) 272-4178. The examiner can normally be reached on Mon-Fri (8:00A to 5:30P).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew M. Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2186

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Pierre-Michel Bataille Primary Examiner Art Unit 2186

/Pierre-Michel Bataille/ Primary Examiner, Art Unit 2186